

DOCKET NO.: J&J 1673

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Toni M. Kutchan, et al.

Application No.: 09/486,757

Filing Date: July 3, 2000

For: Cytochrome P450 Reductases from Poppy Plants

Confirmation No.: 4581

Group Art Unit: 1635

Examiner: Zara, Jane J.

DATE OF DEPOSIT: 9/27/05

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

/John W. Harbour/

TYPED NAME: John W. Harbour
REGISTRATION NO.: 31,365

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

☐ In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of

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the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application; or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

- ☒ In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.116 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:

☐ Certification in Accordance with § 1.97(e) is attached; or

☒ Please charge the fee of \$180.00 as set forth in § 1.17(p) to
Deposit Account No. **10-0750/J&J-1673/JWH**.

- ☐ In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of \$180.00 as set forth in § 1.17(p).

- ☒ Copies of reference numbers 1-4 listed on the attached Form PTO-1449 are enclosed herewith.

- ☐ Copies of reference numbers - on the attached Form PTO 1449 are not required to be submitted pursuant to 37 CFR § 1.98(a)(2)(i).

- ☐ Copies of references - are not being submitted because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application number , filed for

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PATENT

which a claim for priority under 35 U.S.C. § 120 has been made in the instant application.

☒ The relevance of those listed references which are not in the English language is as follows:

An English language abstract has been provided for reference No. 1, which is not in the English language.

Please charge any deficiency or credit any overpayment to Deposit Account No. **10-0750/J&J-1673/JWH**. This form is submitted in duplicate.

Date: 9/27/05

/John W. Harbour/

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Form PTO-1449 Modified

List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)

U.S. Department of Commerce
Patent and Trademark Office

Docket No.
J&J 1673

Application No.
09/486,757

Applicant
Toni M. Kutchan, et al.

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U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
	1	WO 93/21326 A2	10/28/93	PCT		

Examiner Initial

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	2	Kraus, P. F. X. et al., "Molecular cloning and heterologous expression of a cDNA encoding berbaminine synthase, a C—O phenol-coupling cytochrome P450 from the higher plant <i>Berberis stolonifera</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , March 1995 , 92(6), 2071-2075
	3	Stadler, R. et al., "The Purification and Characterization of a Unique Cytochrome P-450 Enzyme from <i>Berberis stolonifera</i> Plant Cell Cultures," <i>J. Biol. Chem.</i> , January 15, 1993 , 268(2), 823-831
	4	Tanahashi, T. et al., "Elicitor Induction and Characterization of Microsomal Protopine-6-Hydroxylase, the Central Enzyme in Benzophenanthridine Alkaloid Biosynthesis," <i>Phytochemistry</i> , 1990 , 29(4), 1113-1122

EXAMINER

DATE CONSIDERED